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WHITE SANDS MISSILE RANGE CLIMATE CALENDAR,(U)
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(6) WHITE SANDS MISSILE RANGE CLIMATE CALENDAR

BY

(10) DAVID J. NOVLAN

(16) 1T665702D127 (17) 02

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This is the seventh edition of the White Sands Missile Range Climate Calendar, which was first published in May 1963.

Mean daily maximum and minimum temperatures, and extreme temperatures for the period of record (1950-1976) are tabulated in calendar form for "A" Station, the forecast center located at Headquarters, White Sands Missile

next page

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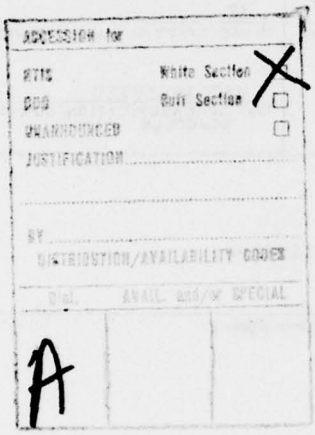
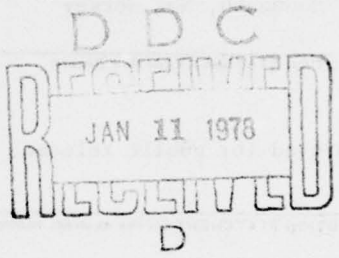
20. ABSTRACT (Cont.)

cont. → Range, New Mexico. Averages of temperatures, relative humidity, wind and cloudiness are included for each month, as well as maximum 24-hour and monthly rainfall.

→ Supplementary tables give monthly, seasonal and annual values of maximum winds, degree days, solar radiation, means and extremes of station pressure, the greatest monthly and single-storm snowfall, and the average six-hourly relative humidities. Also included are the average number of days with the occurence of precipitation, distant lightning, thunderstorms, and visibility restrictions.





FOREWORD

This report is a revision of Data Report 876, published under the same title in Jan 1975. The revision updates the original data to cover the period through September 1977.

CONTENTS

INTRODUCTION

The weather site designated as "A" Station is in the Headquarters area of White Sands Missile Range (WSMR). Its geographic coordinates are 32° 22.7' North and 106° 28.8' West (Fig. 1). The elevation of the Station Barometer is 4,238.4 feet above sea level. The climatological data in this report are for a period of 25 years, 1950 through 1974, unless otherwise indicated. (Daily temperature means and extremes only have been computed through December 1974.) The station was initially operated by the Air Force, but since April 1961 it has been manned by U. S. Army personnel.

Temperature, wind, precipitation and relative humidity are measured with instruments mounted on the roof of the weather station building, No. 1510. (The elevation of the floor of the instrument shelter is 4,252 feet.) However, since May 1955 wind measurements have been made by an Aerovane mounted on a 13-foot mast 0.5 miles west--279°--from the station, (elevation of Aerovane, 4,304.05 feet) with indicators and recorders for wind speed and direction installed in the weather station building.

Temperature extremes are the highest (maximum) and the lowest (minimum) temperatures which have occurred for each day of the year for the period of record. Temperatures are given in degrees Fahrenheit, wind speeds are in knots, and rainfall and snowfall are reported in inches.

The data in this report are considered to be representative of the Headquarters area. However, due to the great extent and extreme variations in elevation and topography of WSMR (4,000 square miles, from dry lake beds--"playas"--at 3,900 feet to mountain peaks near 9,000 feet, Fig. 1 and 2) conditions in other parts of the range may vary widely. For example, the record low temperature for this station is 6° below zero, while at White Sands National Monument it is 25° below zero, and both of these records occurred on the same date--11 January 1962. Also, severe local thunderstorms may produce torrential rainfall in a comparatively small area with little or no rainfall a few miles distant. On 4 July 1961, 1.80" of rain fell in 48 minutes at "A" Station and the 24-hour total was 2.31", while at Orogrande, 24 miles east, the total rainfall for that day was only 0.02".

The greatest 24-hour rainfall of record on the Range occurred at White Sands National Monument on 21-22 September 1941, with a fall of 5.30". Of this amount, 4.28" fell in five hours--1430-1930 MST, 21 September. This, however, was a general storm, with rainfall totals at a few other stations on or near WSMR as follows: Alamogordo, 2.60"; El Paso Airport, 3.42"; Las Cruces, 4.61"; Orogrande, 3.27", Tularosa, 4.75". The greatest 24-hour rainfall of record at "A" Station is 4.25", which fell on 23-24 August 1959. (See Table III.)

DISCUSSION

COLD SEASON (NOVEMBER-APRIL) WEATHER

December and January are the coldest months, with nearly identical mean temperatures. (See Table I.) February averages nearly 4° warmer, but it has the same low temperature record as December. The record low temperature, (-6°) occurred on 11 January 1962, when absolute record minima were established at most stations in southern New Mexico, during an extremely severe cold spell.

The average number of days with minimum temperatures at or below freezing is 38, and with 20° or less is only three. The earliest date of the last freezing temperature in spring occurred on 14 February 1950 (see Table V), while the earliest date of a 90° temperature was 14 April 1963. The record high temperature for the cold season, 94°, was recorded on 22 April 1965. Average date of the first fall freeze is 20 November.

Only 30% of the annual rainfall occurs during the cold season, and April (the second driest month) and November (the third driest) altogether account for only 7% of the annual total. This 6-month period averages only three days with the occurrence of thunderstorms out of the annual total of 43 days. The three coldest months receive 77% of the annual snowfall total of 6.0 inches.

April, the windiest month of the year, has an average hourly wind speed of 8.7 knots. Visibility is reduced to 6 miles or less (by fog, snow, blowing dust, etc.) on an average of 21 days during this season. Five of these days occur in March and four in April, while the total for the year is 36 days. (See Table IV).

WARM SEASON (MAY-OCTOBER) WEATHER

Although June and July are the warmest months, August is only slightly cooler (see Table II). The average number of days with a temperature of 100° or more is only 7, three each in June and July, and one in August. Only in occasional years do such high temperatures occur in May, and none have been recorded in September at this station. The greatest number of successive days with 100° or more is 8, from 26 June to 3 July 1960. However, 18 successive days with 99° or more occurred from 24 June to 11 July 1951. It was during these two periods that the temperature of 106° occurred four times. The absolute high temperature was 107° on 31 July 1972.

Maximum temperatures at Desert Station (near Army Block House) average about 1.2° higher than at "A" Station during the summer months, so that 100° temperatures can be expected in that area on an average of about 12 days each summer. At Orogrande, about 24 miles east of WSMR Headquarters, summer temperatures average about four degrees higher than at this station, and the absolute record high temperature for Orogrande, 116°, equals the record high temperature for the entire state of New Mexico.

The lowest maximum temperature of occurrence for any year was in 1959, when 99° was recorded only twice. The average number of days with maximum temperature of 90° or more is 84, sixty-seven of which occur during the three warmest months. The earliest date of 95° reading was 11 May 1962, and the average date is 2 June. The latest occurrence of 95° in late summer was on 27 September 1951, and the average date is 4 September, while there are thirty-six days per year when a maximum of 95° or more is recorded. October mean temperatures are within one degree of the annual mean.

May (the driest month) and June are, on the average, quite dry. Collectively, they contribute only 11% of the total annual rainfall. July, August, and September, the wettest months of the year, account for 50% of the average annual rainfall of 10.68", and for 66% of the thunderstorms. Seventy per cent of the annual rainfall occurs during the warm season and all but three of the 43 days with thunderstorms. The greatest monthly rainfall of record at this station, 7.42", occurred in June 1966. The driest year of record was 1956, with a rainfall total of only 3.92", (see Table III).

August, with an average hourly wind speed of 4.7 knots is the least windy month of the year, while the annual average is 6.1 knots. The prevailing wind direction for 11 of the 12 months is west, but for July it is southeast. Visibility of 6 miles or less occurs on 15 days during the warm season.

COLDEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGHEST	LOWEST
MONTH OF DECEMBER	56.0	34.7	45.4	77	8
MONTH OF JANUARY	56.3	34.6	45.5	73	-6
MONTH OF FEBRUARY	60.0	37.6	48.8	81	8

TABLE I. TEMPERATURES DURING COLDEST MONTHS, "A" STATION

WARMEST PERIODS	TEMPERATURES (°F)				
	MEAN MAX	MEAN MIN	MEAN	HIGHEST	LOWEST
MONTH OF JUNE	92.8	69.0	80.9	106	50
MONTH OF JULY	93.3	70.5	81.9	107	59
MONTH OF AUGUST	91.1	68.8	80.0	103	55

TABLE II. TEMPERATURES DURING WARMEST MONTHS, "A" STATION

The following tabulations show the precipitation extremes (greatest and least) of record for White Sands Missile Range and vicinity:

PRECIPITATION EXTREMES, "A" STATION, WHITE SANDS MISSILE RANGE

0.38 inch	8 minutes	1412-1420MST, 27 July 1965
1.80 inch	48 minutes	1530-1618MST, 4 July 1961
2.92 inches	2 1/2 hours	0050-0320MST, 24 August, 1959
3.17 inches	6 hours	2245-0445MST, 23-24 August, 1959
3.72 inches	12 hours	1645-0445MST, 23-24 August, 1959
4.25 inches	24 hours	2210-1925MST, 23-24 August, 1959

Greatest annual rainfall:	20.02 inches in 1958.
Least annual rainfall:	3.92 inches in 1956.
Longest dry spell (no measureable rainfall):	123 days, 2/10-6/11, 1956.
Second longest dry spell:	80 days, 10/8-12/26, 1954.
Greatest seasonal snowfall:	24.5 inches, 1967-1968.
Greatest annual snowfall:	18.5 inches, 1960.

HEAVIEST RAINFALL OF RECORD, WHITE SANDS NATIONAL MONUMENT [3]

0.95 inch	30 minutes	4.28 inches	5 hours
1.50 inch	1 hour	4.40 inches	6 hours
2.50 inches	2 hours	5.17 inches	12 hours
3.50 inches	3 hours	5.30 inches	24 hours, 9/21-22/41

PRECIPITATION EXTREMES, NEW MEXICO STATE UNIVERSITY, LAS CRUCES [8]

Extremely heavy rainfall occurred at the University station from 11:05pm 29 Aug. to 7:00am 30 Aug., 1935, measured as follows:

0.64 inch	5 minutes	2.77 inches	60 minutes
1.06 inch	10 minutes	4.15 inches	2 hours
1.50 inch	15 minutes	4.77 inches	3 hours
1.86 inch	20 minutes	5.91 inches	4 hours
2.48 inches	30 minutes	6.46 inches	7 hours 55 minutes
Greatest 24-hour rainfall:		6.49 inches,	29-30 August, 1935
Greatest monthly rainfall:		7.53 inches,	September, 1941

WETTEST AND DRIEST YEARS, NEW MEXICO STATE UNIVERSITY

15.05 inches in 1881, La Mesilla	13.26 inches in 1931, NMSU
17.09 inches in 1905, NMSU	19.60 inches in 1941, NMSU
14.35 inches in 1926, NMSU	14.01 inches in 1958, NMSU
3.61 inches in 1860, Ft. Fillmore	4.02 inches in 1910, NMSU
3.49 inches in 1873, Ft. Selden	3.81 inches in 1953, NMSU
4.47 inches in 1892, NMSU	3.62 inches in 1964, NMSU

HEAVIEST SNOWFALL OF RECORD, NEW MEXICO STATE UNIVERSITY

	Greatest Monthly	Greatest 24-hours
January	4.7 inches in 1947	4.7 inches in 1947
February	10.4 inches in 1956	9.0 inches in 1956
March	2.7 inches in 1944	2.7 inches in 1944
November	5.0 inches in 1957	5.0 inches in 1957
December	10.3 inches in 1931	9.0 inches in 1931

TABLE III. PRECIPITATION EXTREMES, WSMR AND VICINITY

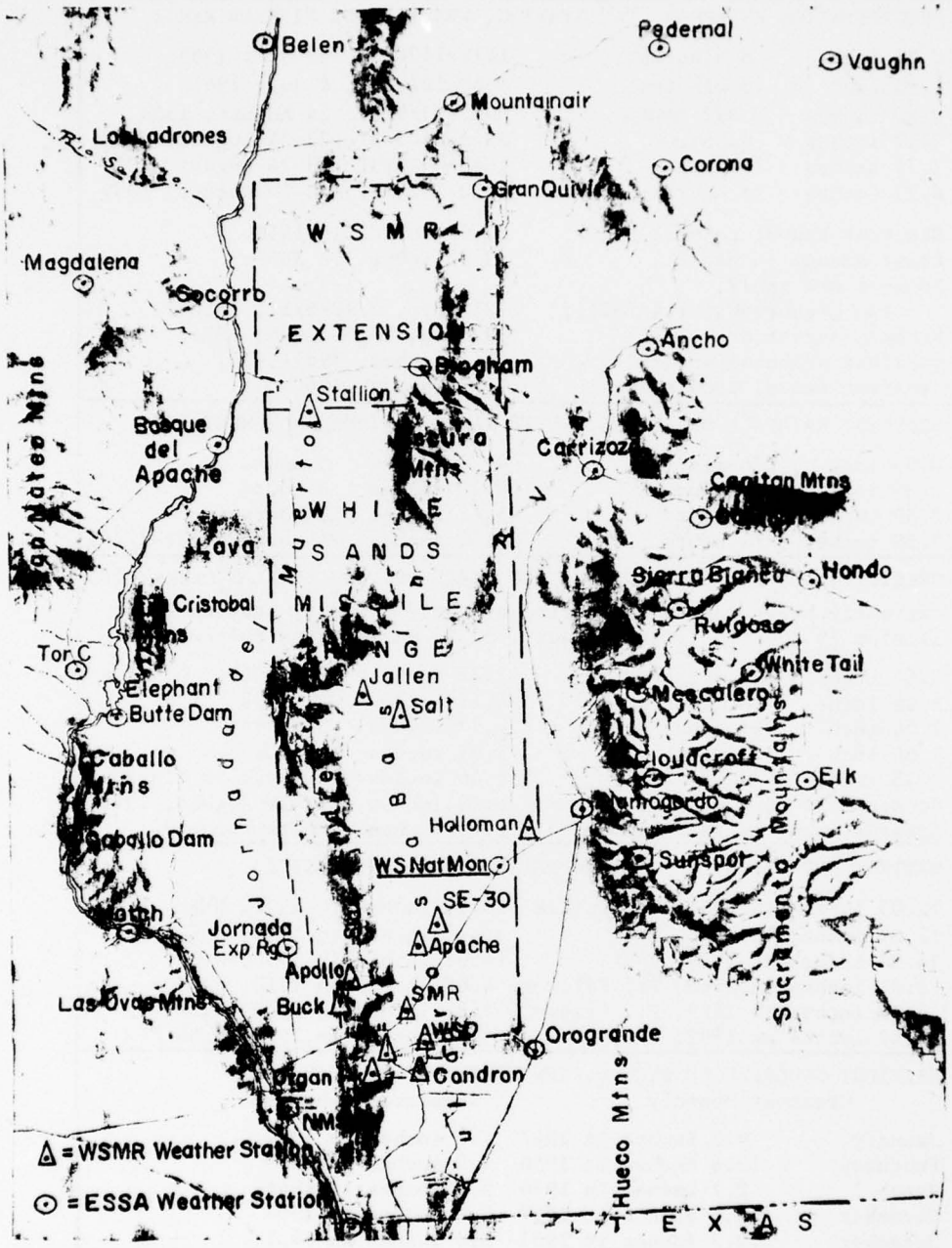


FIGURE 1. WEATHER STATIONS, WHITE SANDS MISSILE RANGE AND VICINITY

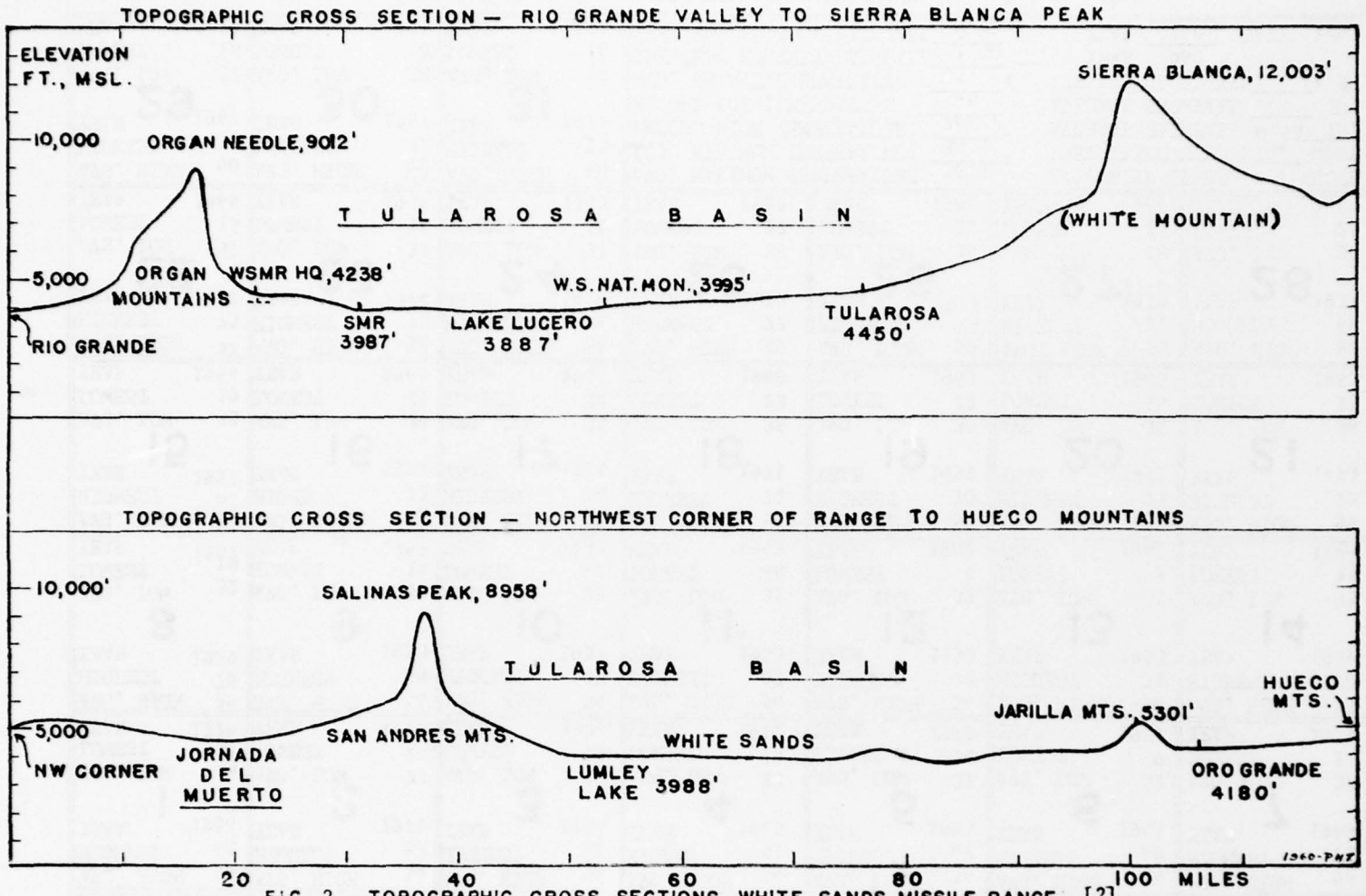


FIG. 2 TOPOGRAPHIC CROSS SECTIONS, WHITE SANDS MISSILE RANGE [2]

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

JANUARY — MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES — JANUARY

AVG. HIGH 54 HIGHEST 62 YEAR 1956 **1** AVG. LOW 33 LOWEST 21 YEAR 1970	AVG. HIGH 54 HIGHEST 67 YEAR 1971 **2** AVG. LOW 33 LOWEST 21 YEAR 1970	AVG. HIGH 54 HIGHEST 61 YEAR 1954 **3** AVG. LOW 33 LOWEST 19 YEAR 1976	AVG. HIGH 54 HIGHEST 61 YEAR 1965 **4** AVG. LOW 33 LOWEST 14 YEAR 1971	AVG. HIGH 54 HIGHEST 67 YEAR 1965 **5** AVG. LOW 32 LOWEST 11 YEAR 1971	AVG. HIGH 54 HIGHEST 69 YEAR 1965 **6** AVG. LOW 32 LOWEST 9 YEAR 1971	AVG. HIGH 54 HIGHEST 71 YEAR 1969 **7** AVG. LOW 32 LOWEST 13 YEAR 1971
AVG. HIGH 54 HIGHEST 70 YEAR 1969 **8** AVG. LOW 32 LOWEST 18 YEAR 1967	AVG. HIGH 54 HIGHEST 68 YEAR 1953 **9** AVG. LOW 32 LOWEST 14 YEAR 1967	AVG. HIGH 54 HIGHEST 73 YEAR 1953 **10** AVG. LOW 32 LOWEST -2 YEAR 1962	AVG. HIGH 54 HIGHEST 69 YEAR 1953 **11*** AVG. LOW 32 LOWEST -6 YEAR 1962	AVG. HIGH 54 HIGHEST 72 YEAR 1953 **12** AVG. LOW 32 LOWEST 4 YEAR 1962	AVG. HIGH 54 HIGHEST 71 YEAR 1953 **13** AVG. LOW 32 LOWEST 8 YEAR 1963	AVG. HIGH 55 HIGHEST 70 YEAR 1969 **14** AVG. LOW 33 LOWEST 13 YEAR 1964
AVG. HIGH 55 HIGHEST 67 YEAR 1957 **15** AVG. LOW 33 LOWEST 19 YEAR 1964	AVG. HIGH 55 HIGHEST 73 YEAR 1974 **16** AVG. LOW 34 LOWEST 21 YEAR 1964	AVG. HIGH 56 HIGHEST 74 YEAR 1974 **17** AVG. LOW 34 LOWEST 22 YEAR 1964	AVG. HIGH 56 HIGHEST 74 YEAR 1971 **18** AVG. LOW 35 LOWEST 23 YEAR 1960	AVG. HIGH 56 HIGHEST 70 YEAR 1959 **19** AVG. LOW 35 LOWEST 22 YEAR 1963	AVG. HIGH 57 HIGHEST 73 YEAR 1971 **20** AVG. LOW 36 LOWEST 16 YEAR 1963	AVG. HIGH 57 HIGHEST 72 YEAR 1973 **21** AVG. LOW 36 LOWEST 23 YEAR 1963
AVG. HIGH 57 HIGHEST 73 YEAR 1967 **22** AVG. LOW 37 LOWEST 13 YEAR 1966	AVG. HIGH 58 HIGHEST 73 YEAR 1972 **23** AVG. LOW 37 LOWEST 16 YEAR 1966	AVG. HIGH 58 HIGHEST 76 YEAR 1970 **24** AVG. LOW 37 LOWEST 18 YEAR 1963	AVG. HIGH 59 HIGHEST 72 YEAR 1972 **25** AVG. LOW 38 LOWEST 22 YEAR 1963	AVG. HIGH 59 HIGHEST 74 YEAR 1975 **26** AVG. LOW 38 LOWEST 22 YEAR 1966	AVG. HIGH 60 HIGHEST 71 YEAR 1970 **27** AVG. LOW 38 LOWEST 21 YEAR 1966	AVG. HIGH 60 HIGHEST 69 YEAR 1971 **28** AVG. LOW 38 LOWEST 24 YEAR 1963
AVG. HIGH 60 HIGHEST 73 YEAR 1967 **29** AVG. LOW 38 LOWEST 28 YEAR 1970	AVG. HIGH 60 HIGHEST 73 YEAR 1967 **30** AVG. LOW 38 LOWEST 20 YEAR 1951	AVG. HIGH 60 HIGHEST 73 YEAR 1971 **31** AVG. LOW 38 LOWEST 16 YEAR 1951				

AVG. MAXIMUM TEMPERATURE	56.5 °	AVG. WIND SPEED	5.8 KNOTS
AVG. MINIMUM TEMPERATURE	34.6 °	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	76 °	AVERAGE RAINFALL	0.53 IN.
RECORD LOW TEMPERATURE	-6 °	AVERAGE SNOWFALL	1.4 IN.
AVG. RELATIVE HUMIDITY	45 %	AVERAGE CLOUDINESS	41 %

GREATEST MONTHLY RAINFALL 1.50 IN., YEAR 1960

GREATEST 24-HOUR RAINFALL 0.96 IN., YEAR 1960, DATE 11th

* ABSOLUTE RECORD LOW TEMPERATURE AT STATION. GREATEST JANUARY SNOWFALL: 5.5 in. 1968

DAILY TEMPERATURE [illegible] AND PRECIPITATION , WITH YEAR OF OCCURRENCE

FEBRUARY MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES FEBRUARY

AVG. HIGH 59 HIGHEST 79 YEAR 1963 **1** AVG. LOW 37 LOWEST 8 YEAR 1951	AVG. HIGH 59 HIGHEST 71 YEAR 1963 **2** AVG. LOW 37 LOWEST 9 YEAR 1951	AVG. HIGH 59 HIGHEST 72 YEAR 1953 **3** AVG. LOW 37 LOWEST 13 YEAR 1956	AVG. HIGH 59 HIGHEST 76 YEAR 1963 **4** AVG. LOW 37 LOWEST 14 YEAR 1956	AVG. HIGH 59 HIGHEST 77 YEAR 1963 **5** AVG. LOW 37 LOWEST 24 YEAR 1955	AVG. HIGH 60 HIGHEST 76 YEAR 1963 **6** AVG. LOW 37 LOWEST 22 YEAR 1955	AVG. HIGH 60 HIGHEST 74 YEAR 1963 **7** AVG. LOW 37 LOWEST 22 YEAR 1964
AVG. HIGH 60 HIGHEST 78 YEAR 1957 **8** AVG. LOW 37 LOWEST 24 YEAR 1974	AVG. HIGH 60 HIGHEST 75 YEAR 1962 **9** AVG. LOW 37 LOWEST 18 YEAR 1967	AVG. HIGH 60 HIGHEST 76 YEAR 1962 **10** AVG. LOW 37 LOWEST 22 YEAR 1956	AVG. HIGH 60 HIGHEST 81 YEAR 1957 **11** AVG. LOW 37 LOWEST 17 YEAR 1963	AVG. HIGH 60 HIGHEST 78 YEAR 1962 **12** AVG. LOW 37 LOWEST 16 YEAR 1963	AVG. HIGH 60 HIGHEST 77 YEAR 1957 **13** AVG. LOW 38 LOWEST 18 YEAR 1963	AVG. HIGH 60 HIGHEST 80 YEAR 1957 **14** ** AVG. LOW 38 LOWEST 21 YEAR 1965
AVG. HIGH 60 HIGHEST 72 YEAR 1971 **15** AVG. LOW 38 LOWEST 20 YEAR 1951	AVG. HIGH 59 HIGHEST 72 YEAR 1971 **16** AVG. LOW 38 LOWEST 25 YEAR 1966	AVG. HIGH 59 HIGHEST 75 YEAR 1970 **17** AVG. LOW 37 LOWEST 24 YEAR 1966	AVG. HIGH 59 HIGHEST 74 YEAR 1977 **18** AVG. LOW 37 LOWEST 26 YEAR 1960	AVG. HIGH 59 HIGHEST 77 YEAR 1972 **19** AVG. LOW 37 LOWEST 22 YEAR 1955	AVG. HIGH 59 HIGHEST 78 YEAR 1972 **20** AVG. LOW 37 LOWEST 21 YEAR 1955	AVG. HIGH 59 HIGHEST 77 YEAR 1972 **21** AVG. LOW 38 LOWEST 20 YEAR 1964
AVG. HIGH 60 HIGHEST 75 YEAR 1954 **22** AVG. LOW 38 LOWEST 23 YEAR 1955	AVG. HIGH 60 HIGHEST 75 YEAR 1972 **23** AVG. LOW 38 LOWEST 21 YEAR 1975	AVG. HIGH 61 HIGHEST 74 YEAR 1972 **24** AVG. LOW 38 LOWEST 16 YEAR 1960	AVG. HIGH 61 HIGHEST 75 YEAR 1954 **25** AVG. LOW 39 LOWEST 14 YEAR 1960	AVG. HIGH 62 HIGHEST 72 YEAR 1961 **26** AVG. LOW 39 LOWEST 29 YEAR 1952	AVG. HIGH 62 HIGHEST 76 YEAR 1976 **27** AVG. LOW 39 LOWEST 29 YEAR 1977	AVG. HIGH 62 HIGHEST 77 YEAR 1974 **28** AVG. LOW 40 LOWEST 25 YEAR 1977
AVG. HIGH 62 HIGHEST 76 YEAR 1972 **29** AVG. LOW 40 LOWEST 29 YEAR 1956						

AVERAGE MAXIMUM TEMPERATURE	60.0°	AVERAGE MONTHLY WIND SPEED	6.5 K
AVERAGE MINIMUM TEMPERATURE	37.6°	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	81°	AVERAGE MONTHLY RAINFALL	0.53 IN.
RECORD MINIMUM TEMPERATURE	8°	AVERAGE MONTHLY SNOWFALL	1.4 IN.
AVERAGE RELATIVE HUMIDITY	39 %	AVERAGE MONTHLY CLOUDLINESS	37 %
GREATEST MONTHLY RAINFALL	1.74 IN., YEAR 1973		
GREATEST 24-HOUR RAINFALL	1.01 IN., YEAR 1953, DATE 28th		

** 14th: EARLIEST DATE OF LAST FREEZING TEMPERATURE IN SPRING, 1950

HIGHEST WIND 102 KNOTS 22 FEB 1977

CUMULATIVE PRECIP. END OF FEB 1.06 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

M A R C H

AVG. HIGH 62 HIGHEST 78 YEAR 1974 **1** AVG. LOW 40 LOWEST 27 YEAR 1960	AVG. HIGH 62 HIGHEST 78 YEAR 1974 **2** AVG. LOW 40 LOWEST 24 YEAR 1965	AVG. HIGH 62 HIGHEST 78 YEAR 1974 **3** AVG. LOW 40 LOWEST 22 YEAR 1971	AVG. HIGH 62 HIGHEST 79 YEAR 1972 **4** AVG. LOW 40 LOWEST 16 YEAR 1965	AVG. HIGH 63 HIGHEST 75 YEAR 1960 **5** AVG. LOW 41 LOWEST 22 YEAR 1966	AVG. HIGH 63 HIGHEST 81 YEAR 1972 **6** AVG. LOW 41 LOWEST 25 YEAR 1977	AVG. HIGH 63 HIGHEST 81 YEAR 1972 **7** AVG. LOW 41 LOWEST 29 YEAR 1971
AVG. HIGH 63 HIGHEST 81 YEAR 1960 **8** AVG. LOW 41 LOWEST 28 YEAR 1956	AVG. HIGH 63 HIGHEST 78 YEAR 1960 **9** AVG. LOW 41 LOWEST 30 YEAR 1964	AVG. HIGH 63 HIGHEST 79 YEAR 1972 **10** AVG. LOW 41 LOWEST 30 YEAR 1969	AVG. HIGH 63 HIGHEST 82 YEAR 1972 **11** AVG. LOW 41 LOWEST 27 YEAR 1969	AVG. HIGH 64 HIGHEST 84 YEAR 1972 **12** AVG. LOW 42 LOWEST 27 YEAR 1958	AVG. HIGH 64 HIGHEST 83 YEAR 1972 **13** AVG. LOW 42 LOWEST 29 YEAR 1970	AVG. HIGH 65 HIGHEST 82 YEAR 1972 **14** AVG. LOW 42 LOWEST 28 YEAR 1962
AVG. HIGH 65 HIGHEST 80 YEAR 1966 **15** AVG. LOW 42 LOWEST 21 YEAR 1962	AVG. HIGH 65 HIGHEST 80 YEAR 1974 **16** ** AVG. LOW 43 LOWEST 27 YEAR 1969	AVG. HIGH 66 HIGHEST 83 YEAR 1974 **17** AVG. LOW 43 LOWEST 32 YEAR 1969	AVG. HIGH 66 HIGHEST 82 YEAR 1967 **18** AVG. LOW 43 LOWEST 32 YEAR 1951	AVG. HIGH 66 HIGHEST 78 YEAR 1966 **19** AVG. LOW 44 LOWEST 23 YEAR 1965	AVG. HIGH 67 HIGHEST 79 YEAR 1966 **20** AVG. LOW 44 LOWEST 26 YEAR 1965	AVG. HIGH 67 HIGHEST 77 YEAR 1960 **21** AVG. LOW 44 LOWEST 29 YEAR 1955
AVG. HIGH 68 HIGHEST 80 YEAR 1972 **22** AVG. LOW 45 LOWEST 26 YEAR 1952	AVG. HIGH 68 HIGHEST 84 YEAR 1971 **23** AVG. LOW 45 LOWEST 28 YEAR 1952	AVG. HIGH 69 HIGHEST 80 YEAR 1950 **24** AVG. LOW 46 LOWEST 37 YEAR 1966	AVG. HIGH 69 HIGHEST 81 YEAR 1953 **25** AVG. LOW 46 LOWEST 32 YEAR 1969	AVG. HIGH 70 HIGHEST 85 YEAR 1971 **26** AVG. LOW 47 LOWEST 23 YEAR 1955	AVG. HIGH 70 HIGHEST 86 YEAR 1971 **27** AVG. LOW 47 LOWEST 23 YEAR 1955	AVG. HIGH 71 HIGHEST 86 YEAR 1967 **28** AVG. LOW 48 LOWEST 28 YEAR 1955
AVG. HIGH 71 HIGHEST 80 YEAR 1967 **29** AVG. LOW 48 LOWEST 31 YEAR 1975	AVG. HIGH 72 HIGHEST 82 YEAR 1974 **30** AVG. LOW 49 LOWEST 29 YEAR 1975	AVG. HIGH 72 HIGHEST 84 YEAR 1969 **31** AVG. LOW 49 LOWEST 33 YEAR 1976	AVG. MAXIMUM TEMPERATURE 65.9° AVG. MINIMUM TEMPERATURE 43.3° RECORD HIGH TEMPERATURE 86° RECORD LOW TEMPERATURE 16° AVG. RELATIVE HUMIDITY 31 % GREATEST MONTHLY RAINFALL 3.00 IN., YEAR 1958 GREATEST 24-HOUR RAINFALL 1.46 IN., YEAR 1958, DATE 5-6th		AVG. WIND SPEED 8.0 KNOTS PREVAILING WIND DIR. WEST AVERAGE RAINFALL 0.49 IN. AVERAGE SNOWFALL 0.4 IN. AVERAGE CLOUDINESS 39 %	

** AVERAGE DATE OF LAST FREEZING TEMPERATURE IN SPRING.

CUMULATIVE PRECIP END OF MARCH 1.55 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

APRIL

AVG. HIGH 73 HIGHEST 82 YEAR 1969 **1** AVG. LOW 49 LOWEST 40 YEAR 1976	AVG. HIGH 73 HIGHEST 83 YEAR 1966 **2** AVG. LOW 50 LOWEST 35 YEAR 1970	AVG. HIGH 73 HIGHEST 86 YEAR 1954 **3** AVG. LOW 50 LOWEST 31 YEAR 1973	AVG. HIGH 73 HIGHEST 87 YEAR 1967 **4** AVG. LOW 50 LOWEST 37 YEAR 1964	AVG. HIGH 73 HIGHEST 86 YEAR 1959 **5** AVG. LOW 50 LOWEST 34 YEAR 1970	AVG. HIGH 74 HIGHEST 85 YEAR 1954 **6** AVG. LOW 50 LOWEST 36 YEAR 1973	AVG. HIGH 74 HIGHEST 86 YEAR 1963 **7** AVG. LOW 50 LOWEST 36 YEAR 1975
AVG. HIGH 74 HIGHEST 86 YEAR 1963 **8** AVG. LOW 50 LOWEST 29 YEAR 1973	AVG. HIGH 74 HIGHEST 86 YEAR 1977 *** **9** AVG. LOW 50 LOWEST 30 YEAR 1973	AVG. HIGH 74 HIGHEST 86 YEAR 1960 **10** AVG. LOW 50 LOWEST 38 YEAR 1973	AVG. HIGH 74 HIGHEST 89 YEAR 1971 **11** AVG. LOW 51 LOWEST 34 YEAR 1951	AVG. HIGH 75 HIGHEST 85 YEAR 1971 **12** AVG. LOW 51 LOWEST 37 YEAR 1953	AVG. HIGH 75 HIGHEST 85 YEAR 1962 **13** AVG. LOW 52 LOWEST 36 YEAR 1959	AVG. HIGH 75 HIGHEST 90 YEAR 1963 **14** ** AVG. LOW 52 LOWEST 38 YEAR 1958
AVG. HIGH 76 HIGHEST 89 YEAR 1962 **15** AVG. LOW 53 LOWEST 42 YEAR 1976	AVG. HIGH 76 HIGHEST 91 YEAR 1962 **16** AVG. LOW 53 LOWEST 35 YEAR 1976	AVG. HIGH 76 HIGHEST 89 YEAR 1962 **17** AVG. LOW 54 LOWEST 36 YEAR 1976	AVG. HIGH 77 HIGHEST 89 YEAR 1954 **18** AVG. LOW 54 LOWEST 37 YEAR 1976	AVG. HIGH 77 HIGHEST 88 YEAR 1962 **19** AVG. LOW 54 LOWEST 39 YEAR 1971	AVG. HIGH 77 HIGHEST 88 YEAR 1965 **20** AVG. LOW 55 LOWEST 42 YEAR 1975	AVG. HIGH 77 HIGHEST 92 YEAR 1965 **21** AVG. LOW 55 LOWEST 42 YEAR 1973
AVG. HIGH 77 HIGHEST 94 YEAR 1965 **22** AVG. LOW 55 LOWEST 46 YEAR 1952	AVG. HIGH 77 HIGHEST 89 YEAR 1965 **23** AVG. LOW 55 LOWEST 41 YEAR 1968	AVG. HIGH 78 HIGHEST 91 YEAR 1974 **24** AVG. LOW 55 LOWEST 36 YEAR 1968	AVG. HIGH 78 HIGHEST 90 YEAR 1974 **25** AVG. LOW 55 LOWEST 45 YEAR 1961	AVG. HIGH 78 HIGHEST 89 YEAR 1950 **26** AVG. LOW 55 LOWEST 43 YEAR 1964	AVG. HIGH 78 HIGHEST 85 YEAR 1953 **27** AVG. LOW 55 LOWEST 42 YEAR 1973	AVG. HIGH 78 HIGHEST 84 YEAR 1973 **28** AVG. LOW 55 LOWEST 46 YEAR 1969
AVG. HIGH 78 HIGHEST 87 YEAR 1961 **29** AVG. LOW 55 LOWEST 45 YEAR 1951	AVG. HIGH 79 HIGHEST 89 YEAR 1961 **30** AVG. LOW 55 LOWEST 40 YEAR 1970					

AVERAGE MAXIMUM TEMPERATURE	75.4 °	AVERAGE MONTHLY WIND SPEED	8.7 KNOTS
AVERAGE MINIMUM TEMPERATURE	52.4 °	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	94 °	AVERAGE MONTHLY RAINFALL	0.25 INCH
RECORD MINIMUM TEMPERATURE	34 °	AVERAGE MONTHLY SNOWFALL	.04 INCH
AVERAGE RELATIVE HUMIDITY	26 %	AVERAGE MONTHLY CLOUDINESS	34 %
GREATEST MONTHLY RAINFALL	1.37 IN.,	YEAR 1952	
GREATEST 24-HOUR RAINFALL	0.95 IN.,	YEAR 1952,	DATE 11th

** EARLIEST DATE TEMPERATURE REACHED 90°. *** LATEST DATE FREEZING TEMPERATURE IN SPRING

CUMULATIVE PRECIP THROUGH APRIL 1.80 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

M A Y — M A Y

AVG. HIGH 79 HIGHEST 90 YEAR 1961 **1** AVG. LOW 56 LOWEST 41 YEAR 1951	AVG. HIGH 79 HIGHEST 87 YEAR 1971 **2** AVG. LOW 56 LOWEST 39 YEAR 1967	AVG. HIGH 80 HIGHEST 89 YEAR 1956 **3** AVG. LOW 56 LOWEST 41 YEAR 1970	AVG. HIGH 80 HIGHEST 91 YEAR 1962 **4** AVG. LOW 57 LOWEST 39 YEAR 1953	AVG. HIGH 81 HIGHEST 92 YEAR 1962 **5** AVG. LOW 57 LOWEST 44 YEAR 1950	AVG. HIGH 81 HIGHEST 92 YEAR 1962 **6** AVG. LOW 57 LOWEST 43 YEAR 1969	AVG. HIGH 82 HIGHEST 93 YEAR 1956 **7** AVG. LOW 58 LOWEST 38 YEAR 1969
AVG. HIGH 82 HIGHEST 93 YEAR 1956 **8** AVG. LOW 58 LOWEST 47 YEAR 1969	AVG. HIGH 82 HIGHEST 93 YEAR 1962 **9** AVG. LOW 59 LOWEST 46 YEAR 1969	AVG. HIGH 83 HIGHEST 94 YEAR 1962 **10** AVG. LOW 59 LOWEST 45 YEAR 1953	AVG. HIGH 83 HIGHEST 95 YEAR 1962 **11** AVG. LOW 59 LOWEST 50 YEAR 1953	AVG. HIGH 83 HIGHEST 93 YEAR 1974 **12** AVG. LOW 60 LOWEST 49 YEAR 1971	AVG. HIGH 84 HIGHEST 93 YEAR 1960 **13** AVG. LOW 60 LOWEST 45 YEAR 1953	AVG. HIGH 84 HIGHEST 95 YEAR 1963 **14** AVG. LOW 60 LOWEST 47 YEAR 1953
AVG. HIGH 84 HIGHEST 94 YEAR 1976 **15** AVG. LOW 60 LOWEST 47 YEAR 1967	AVG. HIGH 84 HIGHEST 93 YEAR 1964 **16** AVG. LOW 61 LOWEST 49 YEAR 1967	AVG. HIGH 85 HIGHEST 93 YEAR 1970 **17** AVG. LOW 61 LOWEST 52 YEAR 1965	AVG. HIGH 85 HIGHEST 97 YEAR 1970 **18** AVG. LOW 61 LOWEST 48 YEAR 1968	AVG. HIGH 85 HIGHEST 96 YEAR 1970 **19** AVG. LOW 62 LOWEST 47 YEAR 1952	AVG. HIGH 86 HIGHEST 98 YEAR 1969 **20** AVG. LOW 62 LOWEST 50 YEAR 1960	AVG. HIGH 86 HIGHEST 94 YEAR 1970 **21** AVG. LOW 62 LOWEST 50 YEAR 1967
AVG. HIGH 86 HIGHEST 93 YEAR 1965 **22** AVG. LOW 62 LOWEST 55 YEAR 1962	AVG. HIGH 87 HIGHEST 94 YEAR 1974 **23** AVG. LOW 63 LOWEST 57 YEAR 1963	AVG. HIGH 87 HIGHEST 99 YEAR 1964 **24** AVG. LOW 63 LOWEST 55 YEAR 1971	AVG. HIGH 87 HIGHEST 95 YEAR 1951 **25** AVG. LOW 63 LOWEST 54 YEAR 1954	AVG. HIGH 88 HIGHEST 100 YEAR 1951 **26**** AVG. LOW 64 LOWEST 53 YEAR 1967	AVG. HIGH 88 HIGHEST 102 YEAR 1951 **27** AVG. LOW 64 LOWEST 50 YEAR 1950	AVG. HIGH 88 HIGHEST 103 YEAR 1951 **28** AVG. LOW 65 LOWEST 54 YEAR 1973
AVG. HIGH 89 HIGHEST 98 YEAR 1951 **29** AVG. LOW 65 LOWEST 53 YEAR 1973	AVG. HIGH 89 HIGHEST 99 YEAR 1951 **30** AVG. LOW 65 LOWEST 47 YEAR 1975	AVG. HIGH 89 HIGHEST 97 YEAR 1953 **31** AVG. LOW 66 LOWEST 50 YEAR 1975				

AVG. MAXIMUM TEMPERATURE	84.3°	AVG. WIND SPEED	7.9 KNOTS
AVG. MINIMUM TEMPERATURE	60.5°	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	103 °	AVERAGE RAINFALL	0.25 IN.
RECORD LOW TEMPERATURE	38 °	AVERAGE SNOWFALL	0.0 IN.
AVG. RELATIVE HUMIDITY	24 %	AVERAGE CLOUDINESS	30 %
GREATEST MONTHLY RAINFALL	1.01 IN., YEAR 1976		
GREATEST 24-HOUR RAINFALL	0.82 IN., YEAR 1959, DATE 23rd		

** EARLIEST DATE OF 100° TEMPERATURE AT STATION

CUMULATIVE PRECIP THROUGH MAY 2.05 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

JUNE — JUNE

1	2	3	4	5	6	7
AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90
HIGHEST 96	HIGHEST 96	HIGHEST 100	HIGHEST 99	HIGHEST 94	HIGHEST 97	HIGHEST 99
YEAR 1953	YEAR 1956	YEAR 1956	YEAR 1956	YEAR 1967	YEAR 1950	YEAR 1956
AVG. LOW 65	AVG. LOW 65	AVG. LOW 66	AVG. LOW 66	AVG. LOW 66	AVG. LOW 67	AVG. LOW 67
LOWEST 50	LOWEST 55	LOWEST 56	LOWEST 57	LOWEST 56	LOWEST 60	LOWEST 59
YEAR 1964	YEAR 1969	YEAR 1962	YEAR 1957	YEAR 1970	YEAR 1959	YEAR 1960
8	**9**	**10**	**11**	**12**	**13**	**14**
AVG. HIGH 91	AVG. HIGH 91	AVG. HIGH 91	AVG. HIGH 92	AVG. HIGH 92	AVG. HIGH 92	AVG. HIGH 93
HIGHEST 101	HIGHEST 98	HIGHEST 98	HIGHEST 100	HIGHEST 98	HIGHEST 101	HIGHEST 102
YEAR 1955	YEAR 1953	YEAR 1962	YEAR 1974	YEAR 1968	YEAR 1956	YEAR 1977
AVG. LOW 67	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 69
LOWEST 56	LOWEST 59	LOWEST 53	LOWEST 50	LOWEST 55	LOWEST 61	LOWEST 56
YEAR 1970	YEAR 1965	YEAR 1965	YEAR 1965	YEAR 1975	YEAR 1973	YEAR 1973
15	**16**	**17**	**18**	**19**	**20**	**21**
AVG. HIGH 93	AVG. HIGH 93	AVG. HIGH 94	AVG. HIGH 94	AVG. HIGH 95	AVG. HIGH 95	AVG. HIGH 95
HIGHEST 101	HIGHEST 104	HIGHEST 103	HIGHEST 103	HIGHEST 104	HIGHEST 103	HIGHEST 105
YEAR 1950	YEAR 1977	YEAR 1977	YEAR 1977	YEAR 1960	YEAR 1960	YEAR 1968
AVG. LOW 69	AVG. LOW 69	AVG. LOW 70	AVG. LOW 70	AVG. LOW 70	AVG. LOW 71	AVG. LOW 71
LOWEST 62	LOWEST 61	LOWEST 58	LOWEST 59	LOWEST 64	LOWEST 63	LOWEST 59
YEAR 1969	YEAR 1969	YEAR 1968	YEAR 1955	YEAR 1965	YEAR 1953	YEAR 1973
22	**23**	**24**	**25**	**26**	**27**	**28**
AVG. HIGH 95	AVG. HIGH 96	AVG. HIGH 96	AVG. HIGH 96	AVG. HIGH 96	AVG. HIGH 96	AVG. HIGH 95
HIGHEST 104	HIGHEST 102	HIGHEST 102	HIGHEST 102	HIGHEST 105	HIGHEST 103	HIGHEST 106
YEAR 1960	YEAR 1968	YEAR 1961	YEAR 1951	YEAR 1973	YEAR 1957	YEAR 1951
AVG. LOW 71	AVG. LOW 72	AVG. LOW 72	AVG. LOW 72	AVG. LOW 72	AVG. LOW 72	AVG. LOW 72
LOWEST 60	LOWEST 59	LOWEST 60	LOWEST 63	LOWEST 62	LOWEST 62	LOWEST 64
YEAR 1973	YEAR 1973	YEAR 1973	YEAR 1964	YEAR 1976	YEAR 1966	YEAR 1966
29	**30**					
AVG. HIGH 95	AVG. HIGH 95					
HIGHEST 106	HIGHEST 103					
YEAR 1973	YEAR 1973					
AVG. LOW 71	AVG. LOW 71					
LOWEST 61	LOWEST 62					
YEAR 1967	YEAR 1966					

AVERAGE MAXIMUM TEMPERATURE	92.8°	AVERAGE MONTHLY WIND SPEED	6.8 KNOTS
AVERAGE MINIMUM TEMPERATURE	69.0°	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	106 °	AVERAGE MONTHLY RAINFALL	0.84 INCH
RECORD MINIMUM TEMPERATURE	50 °	AVERAGE MONTHLY SNOWFALL	0 INCH
AVERAGE RELATIVE HUMIDITY	27 %	AVERAGE MONTHLY CLOUDINESS	30 %
GREATEST MONTHLY RAINFALL	7.42 IN., YEAR 1966		
GREATEST 24-HOUR RAINFALL	2.40 IN., YEAR 1966, DATE 29th		

CUMULATIVE PRECIP END OF JUNE 2.89 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

JULY — JULY

AVG. HIGH 94 HIGHEST 103 YEAR 1973 **1** AVG. LOW 71 LOWEST 62 YEAR 1970	AVG. HIGH 94 HIGHEST 106 YEAR 1960 **2** ø AVG. LOW 71 LOWEST 63 YEAR 1971	AVG. HIGH 94 HIGHEST 105 YEAR 1960 **3** AVG. LOW 71 LOWEST 64 YEAR 1971	AVG. HIGH 94 HIGHEST 103 YEAR 1966 **4** AVG. LOW 71 LOWEST 62 YEAR 1968	AVG. HIGH 94 HIGHEST 101 YEAR 1973 **5** AVG. LOW 71 LOWEST 60 YEAR 1968	AVG. HIGH 93 HIGHEST 105 YEAR 1973 **6** AVG. LOW 71 LOWEST 62 YEAR 1968	AVG. HIGH 93 HIGHEST 104 YEAR 1951 **7** AVG. LOW 71 LOWEST 64 YEAR 1960
AVG. HIGH 93 HIGHEST 106 YEAR 1951 **8** AVG. LOW 71 LOWEST 61 YEAR 1952	AVG. HIGH 93 HIGHEST 104 YEAR 1951 **9** AVG. LOW 71 LOWEST 59 YEAR 1952	AVG. HIGH 93 HIGHEST 105 YEAR 1951 **10** AVG. LOW 71 LOWEST 63 YEAR 1969	AVG. HIGH 93 HIGHEST 104 YEAR 1958 **11** AVG. LOW 71 LOWEST 65 YEAR 1962	AVG. HIGH 93 HIGHEST 102 YEAR 1970 **12** AVG. LOW 71 LOWEST 62 YEAR 1959	AVG. HIGH 93 HIGHEST 101 YEAR 1963 **13** AVG. LOW 71 LOWEST 60 YEAR 1974	AVG. HIGH 93 HIGHEST 104 YEAR 1958 **14** AVG. LOW 71 LOWEST 61 YEAR 1974
AVG. HIGH 94 HIGHEST 104 YEAR 1963 **15** AVG. LOW 71 LOWEST 62 YEAR 1973	AVG. HIGH 94 HIGHEST 101 YEAR 1963 **16** AVG. LOW 71 LOWEST 63 YEAR 1975	AVG. HIGH 94 HIGHEST 100 YEAR 1963 **17** AVG. LOW 71 LOWEST 62 YEAR 1973	AVG. HIGH 94 HIGHEST 99 YEAR 1963 **18** AVG. LOW 70 LOWEST 65 YEAR 1973	AVG. HIGH 94 HIGHEST 101 YEAR 1951 **19** AVG. LOW 70 LOWEST 63 YEAR 1973	AVG. HIGH 94 HIGHEST 101 YEAR 1961 **20** AVG. LOW 70 LOWEST 63 YEAR 1955	AVG. HIGH 93 HIGHEST 99 YEAR 1952 **21** AVG. LOW 70 LOWEST 62 YEAR 1955
AVG. HIGH 93 HIGHEST 100 YEAR 1966 **22** AVG. LOW 70 LOWEST 62 YEAR 1950	AVG. HIGH 93 HIGHEST 102 YEAR 1963 **23** AVG. LOW 70 LOWEST 61 YEAR 1955	AVG. HIGH 93 HIGHEST 105 YEAR 1963 **24** AVG. LOW 70 LOWEST 64 YEAR 1976	AVG. HIGH 93 HIGHEST 101 YEAR 1963 **25** AVG. LOW 70 LOWEST 62 YEAR 1973	AVG. HIGH 92 HIGHEST 101 YEAR 1974 **26** AVG. LOW 70 LOWEST 62 YEAR 1950	AVG. HIGH 92 HIGHEST 102 YEAR 1954 **27** AVG. LOW 70 LOWEST 62 YEAR 1962	AVG. HIGH 92 HIGHEST 102 YEAR 1954 **28** AVG. LOW 70 LOWEST 63 YEAR 1973
AVG. HIGH 92 HIGHEST 100 YEAR 1960 **29** AVG. LOW 70 LOWEST 63 YEAR 1974	AVG. HIGH 92 HIGHEST 100 YEAR 1969 **30** AVG. LOW 70 LOWEST 62 YEAR 1974	AVG. HIGH 92 HIGHEST 107 YEAR 1972 **31** ø AVG. LOW 70 LOWEST 63 YEAR 1968				

AVG. MAXIMUM TEMPERATURE	93.3 °	AVG. WIND SPEED	4.9 KNOTS
AVG. MINIMUM TEMPERATURE	70.5 °	PREVAILING WIND DIR.	SE
RECORD HIGH TEMPERATURE	107 ø °	AVERAGE RAINFALL	2.22 IN.
RECORD LOW TEMPERATURE	59 °	AVERAGE SNOWFALL	0.0 IN.
AVG. RELATIVE HUMIDITY	43 %	AVERAGE CLOUDINESS	47 %
GREATEST MONTHLY RAINFALL	5.63 IN., YEAR 1962		
GREATEST 24-HOUR RAINFALL	2.50 IN., YEAR 1973, DATE 14-15		

ø ABSOLUTE RECORD MAXIMUM TEMPERATURE AT STATION:

CUMULATIVE PRECIP THROUGH JULY 5.11 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

AUGUST — MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES — AUGUST

1	2	3	4	5	6	7
AVG. HIGH 92	AVG. HIGH 92	AVG. HIGH 92	AVG. HIGH 93	AVG. HIGH 93	AVG. HIGH 93	AVG. HIGH 94
HIGHEST 102	HIGHEST 101	HIGHEST 102	HIGHEST 99	HIGHEST 100	HIGHEST 101	HIGHEST 101
YEAR 1966	YEAR 1969	YEAR 1977	YEAR 1977	YEAR 1969	YEAR 1976	YEAR 1951
AVG. LOW 70	AVG. LOW 70	AVG. LOW 70	AVG. LOW 70	AVG. LOW 70	AVG. LOW 70	AVG. LOW 70
LOWEST 62	LOWEST 61	LOWEST 63	LOWEST 63	LOWEST 58	LOWEST 62	LOWEST 63
YEAR 1965	YEAR 1971	YEAR 1971	YEAR 1975	YEAR 1975	YEAR 1971	YEAR 1971
8	**9**	**10**	**11**	**12**	**13**	**14**
AVG. HIGH 94	AVG. HIGH 94	AVG. HIGH 93	AVG. HIGH 93	AVG. HIGH 93	AVG. HIGH 92	AVG. HIGH 92
HIGHEST 101	HIGHEST 100	HIGHEST 100	HIGHEST 101	HIGHEST 98	HIGHEST 99	HIGHEST 100
YEAR 1951	YEAR 1951	YEAR 1951	YEAR 1964	YEAR 1969	YEAR 1969	YEAR 1962
AVG. LOW 70	AVG. LOW 70	AVG. LOW 70	AVG. LOW 70	AVG. LOW 69	AVG. LOW 69	AVG. LOW 69
LOWEST 59	LOWEST 61	LOWEST 61	LOWEST 61	LOWEST 59	LOWEST 64	LOWEST 64
YEAR 1971	YEAR 1971	YEAR 1973	YEAR 1960	YEAR 1966	YEAR 1960	YEAR 1975
15	**16**	**17**	**18**	**19**	**20**	**21** ØØ
AVG. HIGH 92	AVG. HIGH 91	AVG. HIGH 91	AVG. HIGH 91	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90
HIGHEST 100	HIGHEST 100	HIGHEST 103	HIGHEST 99	HIGHEST 98	HIGHEST 98	HIGHEST 100
YEAR 1969	YEAR 1969	YEAR 1969	YEAR 1969	YEAR 1969	YEAR 1969	YEAR 1952
AVG. LOW 69	AVG. LOW 69	AVG. LOW 69	AVG. LOW 69	AVG. LOW 69	AVG. LOW 68	AVG. LOW 68
LOWEST 62	LOWEST 60	LOWEST 62	LOWEST 63	LOWEST 64	LOWEST 62	LOWEST 63
YEAR 1965	YEAR 1967	YEAR 1968	YEAR 1967	YEAR 1971	YEAR 1967	YEAR 1968
22	**23**	**24**	**25**	**26**	**27**	**28**
AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 90	AVG. HIGH 89	AVG. HIGH 89
HIGHEST 97	HIGHEST 96	HIGHEST 98	HIGHEST 97	HIGHEST 96	HIGHEST 98	HIGHEST 98
YEAR 1950	YEAR 1969	YEAR 1977	YEAR 1964	YEAR 1960	YEAR 1965	YEAR 1962
AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68	AVG. LOW 68
LOWEST 62	LOWEST 60	LOWEST 62	LOWEST 59	LOWEST 55	LOWEST 61	LOWEST 61
YEAR 1975	YEAR 1974	YEAR 1974	YEAR 1966	YEAR 1966	YEAR 1974	YEAR 1974
29	**30**	**31**				
AVG. HIGH 89	AVG. HIGH 89	AVG. HIGH 89				
HIGHEST 98	HIGHEST 98	HIGHEST 98				
YEAR 1962	YEAR 1962	YEAR 1950				
AVG. LOW 68	AVG. LOW 68	AVG. LOW 68				
LOWEST 62	LOWEST 61	LOWEST 58				
YEAR 1974	YEAR 1974	YEAR 1967				

AVG. MAXIMUM TEMPERATURE	91.1 °	AVG. WIND SPEED	4.7 KNOTS
AVG. MINIMUM TEMPERATURE	68.8 °	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	103 °	AVERAGE RAINFALL	1.84 IN.
RECORD LOW TEMPERATURE	55 °	AVERAGE SNOWFALL	0.0 IN.
AVG. RELATIVE HUMIDITY	43 %	AVERAGE CLOUDINESS	44 %
GREATEST MONTHLY RAINFALL	6.32 IN., YEAR 1959		
GREATEST 24-HOUR RAINFALL	4.25 IN., YEAR 1959, DATE 23-24		

ØØ LATEST DATE OF 100° TEMPERATURE AT STATION, 1952.

CUMULATIVE PRECIP THROUGH AUGUST 6.95 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

S E P T E M B E R MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES S E P T E M B E R

AVG. HIGH 88 HIGHEST 98 YEAR 1974 **1** AVG. LOW 67 LOWEST 57 YEAR 1967	AVG. HIGH 88 HIGHEST 98 YEAR 1951 **2** AVG. LOW 67 LOWEST 58 YEAR 1968	AVG. HIGH 88 HIGHEST 98 YEAR 1951 **3** AVG. LOW 66 LOWEST 58 YEAR 1974	AVG. HIGH 88 HIGHEST 97 YEAR 1977 **4** AVG. LOW 66 LOWEST 53 YEAR 1961	AVG. HIGH 88 HIGHEST 98 YEAR 1951 **5** AVG. LOW 65 LOWEST 56 YEAR 1961	AVG. HIGH 88 HIGHEST 97 YEAR 1951 **6** AVG. LOW 65 LOWEST 59 YEAR 1967	AVG. HIGH 88 HIGHEST 96 YEAR 1959 **7** AVG. LOW 65 LOWEST 58 YEAR 1968
AVG. HIGH 88 HIGHEST 97 YEAR 1971 **8** AVG. LOW 65 LOWEST 58 YEAR 1966	AVG. HIGH 87 HIGHEST 97 YEAR 1970 **9** AVG. LOW 64 LOWEST 59 YEAR 1966	AVG. HIGH 87 HIGHEST 96 YEAR 1974 **10** AVG. LOW 64 LOWEST 58 YEAR 1956	AVG. HIGH 87 HIGHEST 97 YEAR 1974 **11** AVG. LOW 64 LOWEST 57 YEAR 1966	AVG. HIGH 87 HIGHEST 94 YEAR 1970 **12** AVG. LOW 64 LOWEST 51 YEAR 1975	AVG. HIGH 87 HIGHEST 92 YEAR 1956 **13** AVG. LOW 64 LOWEST 50 YEAR 1975	AVG. HIGH 87 HIGHEST 94 YEAR 1971 **14** AVG. LOW 64 LOWEST 52 YEAR 1975
AVG. HIGH 87 HIGHEST 95 YEAR 1956 **15** AVG. LOW 64 LOWEST 58 YEAR 1974	AVG. HIGH 87 HIGHEST 98 YEAR 1956 **16** AVG. LOW 63 LOWEST 54 YEAR 1961	AVG. HIGH 86 HIGHEST 96 YEAR 1956 **17** AVG. LOW 63 LOWEST 55 YEAR 1968	AVG. HIGH 86 HIGHEST 95 YEAR 1953 **18** AVG. LOW 63 LOWEST 49 YEAR 1971	AVG. HIGH 86 HIGHEST 95 YEAR 1954 **19** AVG. LOW 63 LOWEST 47 YEAR 1971	AVG. HIGH 86 HIGHEST 95 YEAR 1954 **20** AVG. LOW 63 LOWEST 47 YEAR 1971	AVG. HIGH 86 HIGHEST 92 YEAR 1951 **21** AVG. LOW 63 LOWEST 51 YEAR 1965
AVG. HIGH 85 HIGHEST 92 YEAR 1956 **22** AVG. LOW 63 LOWEST 46 YEAR 1975	AVG. HIGH 85 HIGHEST 93 YEAR 1951 **23** AVG. LOW 62 LOWEST 46 YEAR 1975	AVG. HIGH 84 HIGHEST 94 YEAR 1951 **24** AVG. LOW 62 LOWEST 50 YEAR 1971	AVG. HIGH 84 HIGHEST 94 YEAR 1951 **25** AVG. LOW 62 LOWEST 51 YEAR 1971	AVG. HIGH 84 HIGHEST 96 YEAR 1951 **26** AVG. LOW 61 LOWEST 49 YEAR 1970	AVG. HIGH 84 HIGHEST 95 YEAR 1951 **27** AVG. LOW 61 LOWEST 49 YEAR 1970	AVG. HIGH 84 HIGHEST 92 YEAR 1977 **28** AVG. LOW 60 LOWEST 46 YEAR 1970
AVG. HIGH 84 HIGHEST 93 YEAR 1977 **29** AVG. LOW 60 LOWEST 48 YEAR 1970	AVG. HIGH 83 HIGHEST 90 YEAR 1977 **30** AVG. LOW 60 LOWEST 48 YEAR 1970					

AVERAGE MAXIMUM TEMPERATURE	86.1°	AVERAGE MONTHLY WIND SPEED	4.8 KNOTS
AVERAGE MINIMUM TEMPERATURE	63.3°	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	98°	AVERAGE MONTHLY RAINFALL	1.48 INCH
RECORD MINIMUM TEMPERATURE	46°	AVERAGE MONTHLY SNOWFALL	0.0 INCH
AVERAGE RELATIVE HUMIDITY	42 %	AVERAGE MONTHLY CLOUDINESS	31 %
GREATEST MONTHLY RAINFALL	5.76 IN.,	YEAR 1958	
GREATEST 24-HOUR RAINFALL	2.96 IN.,	YEAR 1964,	DATE 11-12

CUMULATIVE PRECIP THROUGH SEPTEMBER 8.43 IN

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

OCTOBER — MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES — OCTOBER

AVG. HIGH 83 HIGHEST 91 YEAR 1951 **1** AVG. LOW 59 LOWEST 48 YEAR 1965	AVG. HIGH 83 HIGHEST 88 YEAR 1951 **2** AVG. LOW 59 LOWEST 48 YEAR 1965	AVG. HIGH 82 HIGHEST 88 YEAR 1967 **3** AVG. LOW 58 LOWEST 48 YEAR 1961	AVG. HIGH 82 HIGHEST 88 YEAR 1956 **4** AVG. LOW 58 LOWEST 46 YEAR 1961	AVG. HIGH 82 HIGHEST 90 YEAR 1956 **5** AVG. LOW 57 LOWEST 49 YEAR 1953	AVG. HIGH 82 HIGHEST 90 YEAR 1956 **6** AVG. LOW 57 LOWEST 49 YEAR 1968	AVG. HIGH 81 HIGHEST 87 YEAR 1965 **7** AVG. LOW 57 LOWEST 42 YEAR 1976
AVG. HIGH 81 HIGHEST 90 YEAR 1965 **8** AVG. LOW 57 LOWEST 44 YEAR 1970	AVG. HIGH 81 HIGHEST 92 YEAR 1965 **9** AVG. LOW 57 LOWEST 39 YEAR 1970	AVG. HIGH 80 HIGHEST 89 YEAR 1965 **10** AVG. LOW 57 LOWEST 45 YEAR 1976	AVG. HIGH 80 HIGHEST 88 YEAR 1951 **11** AVG. LOW 56 LOWEST 42 YEAR 1973	AVG. HIGH 79 HIGHEST 88 YEAR 1951 **12** AVG. LOW 56 LOWEST 44 YEAR 1973	AVG. HIGH 79 HIGHEST 88 YEAR 1968 **13** AVG. LOW 55 LOWEST 44 YEAR 1977	AVG. HIGH 78 HIGHEST 90 YEAR 1968 **14** ØØ AVG. LOW 55 LOWEST 42 YEAR 1969
AVG. HIGH 78 HIGHEST 86 YEAR 1951 **15** AVG. LOW 54 LOWEST 45 YEAR 1966	AVG. HIGH 77 HIGHEST 85 YEAR 1950 **16** AVG. LOW 54 LOWEST 43 YEAR 1976	AVG. HIGH 77 HIGHEST 86 YEAR 1952 **17** AVG. LOW 53 LOWEST 41 YEAR 1967	AVG. HIGH 76 HIGHEST 82 YEAR 1969 **18** AVG. LOW 53 LOWEST 38 YEAR 1968	AVG. HIGH 76 HIGHEST 85 YEAR 1950 **19** AVG. LOW 52 LOWEST 40 YEAR 1970	AVG. HIGH 75 HIGHEST 82 YEAR 1954 **20** AVG. LOW 52 LOWEST 36 YEAR 1976	AVG. HIGH 75 HIGHEST 85 YEAR 1961 **21** AVG. LOW 51 LOWEST 43 YEAR 1964
AVG. HIGH 74 HIGHEST 84 YEAR 1950 **22** AVG. LOW 51 LOWEST 46 YEAR 1965	AVG. HIGH 74 HIGHEST 85 YEAR 1973 **23** AVG. LOW 50 LOWEST 44 YEAR 1968	AVG. HIGH 73 HIGHEST 83 YEAR 1950 **24** AVG. LOW 50 LOWEST 43 YEAR 1970	AVG. HIGH 73 HIGHEST 86 YEAR 1950 **25** AVG. LOW 50 LOWEST 44 YEAR 1968	AVG. HIGH 72 HIGHEST 82 YEAR 1968 **26** AVG. LOW 50 LOWEST 42 YEAR 1964	AVG. HIGH 72 HIGHEST 83 YEAR 1950 **27** AVG. LOW 49 LOWEST 35 YEAR 1976	AVG. HIGH 71 HIGHEST 85 YEAR 1950 **28** AVG. LOW 49 LOWEST 33 YEAR 1976
AVG. HIGH 71 HIGHEST 83 YEAR 1950 **29** AVG. LOW 48 LOWEST 33 YEAR 1976	AVG. HIGH 70 HIGHEST 85 YEAR 1950 **30** AVG. LOW 48 LOWEST 36 YEAR 1967	AVG. HIGH 70 HIGHEST 85 YEAR 1950 **31** AVG. LOW 47 LOWEST 34 YEAR 1956	AVG. MAXIMUM TEMPERATURE 76.4 ° AVG. MINIMUM TEMPERATURE 53.2 ° RECORD HIGH TEMPERATURE 92 ° RECORD LOW TEMPERATURE 33 ° AVG. RELATIVE HUMIDITY 41 % GREATEST MONTHLY RAINFALL 3.84 IN., YEAR 1974 GREATEST 24-HOUR RAINFALL 1.91 IN., YEAR 1955, DATE 3-4		AVG. WIND SPEED 4.9 KNOTS PREVAILING WIND DIR. WEST AVERAGE RAINFALL 1.16 IN. AVERAGE SNOWFALL 0.02 IN. AVERAGE CLOUDINESS 25 %	

ØØ LATEST DATE OF 90° TEMPERATURE AT STATION, 1965.

CUMULATIVE PRECIP THROUGH OCTOBER 9.59 IN

GREATEST & EARLIEST OCTOBER SNOWFALL 0.6 IN 28 OCT 1976

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

NOVEMBER MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES NOVEMBER

AVG. HIGH 69 HIGHEST 84 YEAR 1950 **1** AVG. LOW 46 LOWEST 38 YEAR 1974	AVG. HIGH 69 HIGHEST 77 YEAR 1952 **2** AVG. LOW 46 LOWEST 33 YEAR 1966	AVG. HIGH 68 HIGHEST 76 YEAR 1975 **3** AVG. LOW 45 LOWEST 33 YEAR 1969	AVG. HIGH 68 HIGHEST 78 YEAR 1975 **4** *** AVG. LOW 45 LOWEST 32 YEAR 1967	AVG. HIGH 67 HIGHEST 79 YEAR 1975 **5** AVG. LOW 44 LOWEST 34 YEAR 1970	AVG. HIGH 67 HIGHEST 81 YEAR 1973 **6** AVG. LOW 44 LOWEST 29 YEAR 1959	AVG. HIGH 66 HIGHEST 83 YEAR 1950 **7** AVG. LOW 43 LOWEST 29 YEAR 1959
AVG. HIGH 66 HIGHEST 82 YEAR 1973 **8** AVG. LOW 43 LOWEST 33 YEAR 1955	AVG. HIGH 66 HIGHEST 81 YEAR 1973 **9** ** AVG. LOW 43 LOWEST 28 YEAR 1955	AVG. HIGH 65 HIGHEST 76 YEAR 1969 **10** AVG. LOW 42 LOWEST 25 YEAR 1950	AVG. HIGH 65 HIGHEST 78 YEAR 1973 **11** AVG. LOW 42 LOWEST 22 YEAR 1950	AVG. HIGH 65 HIGHEST 84 YEAR 1973 **12** AVG. LOW 42 LOWEST 23 YEAR 1976	AVG. HIGH 65 HIGHEST 79 YEAR 1973 **13** AVG. LOW 42 LOWEST 18 YEAR 1976	AVG. HIGH 64 HIGHEST 77 YEAR 1962 **14** AVG. LOW 42 LOWEST 12 YEAR 1976
AVG. HIGH 64 HIGHEST 77 YEAR 1966 **15** AVG. LOW 42 LOWEST 25 YEAR 1976	AVG. HIGH 64 HIGHEST 80 YEAR 1966 **16** AVG. LOW 41 LOWEST 23 YEAR 1976	AVG. HIGH 64 HIGHEST 81 YEAR 1966 **17** AVG. LOW 41 LOWEST 28 YEAR 1959	AVG. HIGH 64 HIGHEST 77 YEAR 1966 **18** AVG. LOW 41 LOWEST 26 YEAR 1958	AVG. HIGH 63 HIGHEST 74 YEAR 1965 **19** AVG. LOW 40 LOWEST 25 YEAR 1969	AVG. HIGH 63 HIGHEST 73 YEAR 1966 **20** AVG. LOW 40 LOWEST 26 YEAR 1969	AVG. HIGH 63 HIGHEST 73 YEAR 1955 **21** AVG. LOW 40 LOWEST 25 YEAR 1956
AVG. HIGH 62 HIGHEST 74 YEAR 1950 **22** AVG. LOW 40 LOWEST 25 YEAR 1964	AVG. HIGH 62 HIGHEST 75 YEAR 1965 **23** AVG. LOW 39 LOWEST 30 YEAR 1964	AVG. HIGH 62 HIGHEST 73 YEAR 1965 **24** AVG. LOW 39 LOWEST 28 YEAR 1970	AVG. HIGH 61 HIGHEST 75 YEAR 1965 **25** AVG. LOW 39 LOWEST 30 YEAR 1956	AVG. HIGH 61 HIGHEST 75 YEAR 1960 **26** AVG. LOW 39 LOWEST 25 YEAR 1952	AVG. HIGH 61 HIGHEST 72 YEAR 1950 **27** AVG. LOW 38 LOWEST 15 YEAR 1976	AVG. HIGH 60 HIGHEST 73 YEAR 1970 **28** AVG. LOW 38 LOWEST 10 YEAR 1976
AVG. HIGH 60 HIGHEST 74 YEAR 1970 **29** AVG. LOW 38 LOWEST 5 YEAR 1976	AVG. HIGH 60 HIGHEST 72 YEAR 1950 **30** AVG. LOW 38 LOWEST 15 YEAR 1976					

AVERAGE MAXIMUM TEMPERATURE	64.0°	AVERAGE MONTHLY WIND SPEED	5.3 KNOTS
AVERAGE MINIMUM TEMPERATURE	41.3°	PREVAILING WIND DIRECTION	WEST
RECORD MAXIMUM TEMPERATURE	84°	AVERAGE MONTHLY RAINFALL	0.44 INCH
RECORD MINIMUM TEMPERATURE	22°	AVERAGE MONTHLY SNOWFALL	1.11 INCH
AVERAGE RELATIVE HUMIDITY	43 %	AVERAGE MONTHLY CLOUDINESS	30 %
GREATEST MONTHLY RAINFALL	2.40 IN.,	YEAR 1961	
GREATEST 24-HOUR RAINFALL	0.89 IN.,	YEAR 1961,	DATE 8th

*** EARLIEST DATE OF FIRST FREEZING TEMPERATURE, 1967. ** AVERAGE DATE OF FIRST FREEZING TEMPERATURE.

CUMULATIVE PRECIP THROUGH NOVEMBER 10.03 IN

GREATEST NOV SNOWFALL 10.6 IN 1976

"A" STATION, WHITE SANDS MISSILE RANGE

DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE

DECEMBER MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES DECEMBER

AVG. HIGH 59 HIGHEST 73 YEAR 1961 **1** AVG. LOW 38 LOWEST 17 YEAR 1976	AVG. HIGH 59 HIGHEST 71 YEAR 1970 **2** AVG. LOW 38 LOWEST 24 YEAR 1976	AVG. HIGH 59 HIGHEST 71 YEAR 1954 **3** AVG. LOW 37 LOWEST 24 YEAR 1976	AVG. HIGH 58 HIGHEST 77 YEAR 1958 **4** AVG. LOW 37 LOWEST 28 YEAR 1976	AVG. HIGH 58 HIGHEST 73 YEAR 1958 **5** AVG. LOW 36 LOWEST 24 YEAR 1952	AVG. HIGH 58 HIGHEST 68 YEAR 1966 **6** AVG. LOW 36 LOWEST 19 YEAR 1950	AVG. HIGH 57 HIGHEST 70 YEAR 1954 **7** AVG. LOW 36 LOWEST 24 YEAR 1953
AVG. HIGH 57 HIGHEST 70 YEAR 1970 **8** AVG. LOW 36 LOWEST 25 YEAR 1968	AVG. HIGH 57 HIGHEST 73 YEAR 1950 **9** AVG. LOW 36 LOWEST 21 YEAR 1953	AVG. HIGH 56 HIGHEST 65 YEAR 1958 **10** AVG. LOW 35 LOWEST 20 YEAR 1951	AVG. HIGH 56 HIGHEST 72 YEAR 1950 **11** AVG. LOW 35 LOWEST 20 YEAR 1960	AVG. HIGH 56 HIGHEST 70 YEAR 1973 **12** AVG. LOW 35 LOWEST 22 YEAR 1953	AVG. HIGH 55 HIGHEST 71 YEAR 1973 **13** AVG. LOW 34 LOWEST 24 YEAR 1966	AVG. HIGH 55 HIGHEST 70 YEAR 1950 **14** AVG. LOW 34 LOWEST 21 YEAR 1964
AVG. HIGH 55 HIGHEST 67 YEAR 1950 **15** AVG. LOW 34 LOWEST 22 YEAR 1967	AVG. HIGH 55 HIGHEST 66 YEAR 1969 **16** AVG. LOW 33 LOWEST 26 YEAR 1963	AVG. HIGH 55 HIGHEST 67 YEAR 1970 **17** AVG. LOW 33 LOWEST 22 YEAR 1971	AVG. HIGH 55 HIGHEST 65 YEAR 1969 **18** AVG. LOW 33 LOWEST 24 YEAR 1964	AVG. HIGH 55 HIGHEST 64 YEAR 1969 **19** AVG. LOW 33 LOWEST 26 YEAR 1968	AVG. HIGH 55 HIGHEST 69 YEAR 1969 **20** AVG. LOW 33 LOWEST 17 YEAR 1973	AVG. HIGH 55 HIGHEST 67 YEAR 1969 **21** AVG. LOW 33 LOWEST 21 YEAR 1973
AVG. HIGH 55 HIGHEST 69 YEAR 1969 **22** AVG. LOW 33 LOWEST 22 YEAR 1967	AVG. HIGH 54 HIGHEST 71 YEAR 1955 **23** AVG. LOW 33 LOWEST 17 YEAR 1953	AVG. HIGH 54 HIGHEST 71 YEAR 1955 **24** AVG. LOW 33 LOWEST 8 YEAR 1953	AVG. HIGH 54 HIGHEST 70 YEAR 1971 **25** AVG. LOW 33 LOWEST 20 YEAR 1953	AVG. HIGH 54 HIGHEST 70 YEAR 1971 **26** AVG. LOW 33 LOWEST 21 YEAR 1953	AVG. HIGH 54 HIGHEST 69 YEAR 1955 **27** AVG. LOW 33 LOWEST 24 YEAR 1953	AVG. HIGH 54 HIGHEST 70 YEAR 1955 **28** AVG. LOW 33 LOWEST 22 YEAR 1966
AVG. HIGH 54 HIGHEST 69 YEAR 1955 **29** AVG. LOW 33 LOWEST 18 YEAR 1966	AVG. HIGH 54 HIGHEST 73 YEAR 1951 **30** AVG. LOW 33 LOWEST 21 YEAR 1958	AVG. HIGH 54 HIGHEST 66 YEAR 1964 **31** AVG. LOW 33 LOWEST 21 YEAR 1958				

AVG. MAXIMUM TEMPERATURE	56.5 °	AVG. WIND SPEED	5.4 KNOTS
AVG. MINIMUM TEMPERATURE	34.6 °	PREVAILING WIND DIR.	WEST
RECORD HIGH TEMPERATURE	77 °	AVERAGE RAINFALL	0.74 IN.
RECORD LOW TEMPERATURE	8 °	AVERAGE SNOWFALL	2.4 IN.
AVG. RELATIVE HUMIDITY	47 %	AVERAGE CLOUDINESS	37 %
GREATEST MONTHLY RAINFALL	2.43 IN., YEAR 1965		
GREATEST 24-HOUR RAINFALL	1.02 IN., YEAR 1967, DATE 14-15		

CUMULATIVE PRECIP THROUGH DECEMBER 10.77 IN (YEARLY AMOUNT)
ANNUAL AVERAGE SNOWFALL 6.8 IN

MONTH	1948-1976								1950-1976									1961-63		
	STATION PRESSURE (INCHES OF MERCURY)			SIX-HOURLY RELATIVE HUMIDITY					AVERAGE NUMBER OF DAYS WITH:							AVG. DEGREE DAYS, BASE 65°F Ø	GREATEST SNOWFALL		AVG. DAILY SOLAR RADIATION ØØ
											PRECIPITATION			VISIBILITY					
	MEANS	HIGHEST	LOWEST	5 AM	11 AM	5 PM	11 PM	MEANS	THUNDERSTORMS	↳	T	≥ .01"	≥ .10"	–	++		SINGLE STORM	MONTHLY	
JAN	25.770	26.240	25.160	54	42	38	47	45	=	*	5	3	1	2	1	600	5.5 7-8 ----1968	5.5	332
FEB	25.733	26.185	25.180	49	36	29	40	39	=	*	5	3	2	2	2	454	8.6 14-15----1952	8.6	410
MAR	25.671	26.180	25.180	41	28	22	33	31	1	1	6	4	2	1	4	321	3.5 11-12----1958	3.5	508
APR	25.666	26.160	25.190	35	23	17	27	26	1	1	4	2	1	=	4	94	T	T	624
MAY	25.674	26.120	25.290	34	21	16	25	24	4	2	5	2	1	=	2	16	0	0	679
JUN	25.670	26.070	25.310	38	23	18	28	27	6	4	7	3	2	=	3	0	0	0	692
JUL	25.755	26.050	25.470	58	36	31	46	43	13	8	15	8	4	1	3	0	0	0	632
AUG	25.793	26.010	25.510	59	37	31	45	43	11	7	14	8	4	1	1	0	0	0	584
SEP	25.785	26.050	25.410	56	36	30	45	42	5	6	8	5	3	1	1	4	0	0	538
OCT	25.799	26.220	25.300	51	33	29	42	39	2	2	5	3	3	1	1	75	.6	.6	485
NOV	25.800	26.240	25.290	51	34	34	44	41	=	1	4	2	1	1	1	363	10.6	10.6 1976	340
DEC	25.799	26.285	25.200	56	42	38	49	46	=	*	6	4	2	3	*	601	14.0 14-17----1967	14.9	331
YEAR	25.743	26.285	25.160	49	33	28	39	37	43	32	84	47	26	14	23	2528	14.0	14.9	513

* LESS THAN $\frac{1}{2}$. = LESS THAN $\frac{1}{2}$, BUT MAKING A TOTAL OF 1. ↳ DISTANT LIGHTNING--NO THUNDER HEARD.

\+ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO PRECIPITATION AND FOG. Ø HEATING DEGREE DAYS.

++ VISIBILITY REDUCED TO 6 MILES OR LESS DUE TO HAZE, DUST AND BLOWING DUST. T TRACE OF PRECIPITATION.

ØØ MEASUREMENTS IN LANGLEYS, MADE ON ROOF OF BUILDING 1744, WSMR HEADQUARTERS, BY CALIBRATION LABORATORY.

TABLE IV. MONTHLY AND ANNUAL CLIMATOLOGICAL DATA, "A" STATION, WSMR HEADQUARTERS

ITEM	WINTER	SPRING	SUMMER	FALL	YEAR
TEMPERATURES (°F)					
Mean Maximum	57.4	75.2	92.4	75.5	75.1
Mean Minimum	35.6	52.1	69.4	52.6	52.4
Mean	46.4	63.7	80.9	64.1	63.8
Extremes of Record					
Highest	81	103	107	98	107
Date	2/11/57	5/28/51	7/31/72	9/16/51	
Lowest	-6	16	50	22	-6
Date	1/11/62	3/4/65	6/11/65	11/11/50	1/11/62
DEGREE DAYS (Base 65°F)	1655	431	0	442	2528
RELATIVE HUMIDITY (%)	43	27	38	401	37
SURFACE WINDS (Knots)					
Average Speed	W 5.9	W 8.2	W 5.5	W 5.0	W 6.1
Strongest Gusts	SW 102	W, WSW 74	S 60	W 61	SW 82
Month and Year	2/77	3/51, 5/61	6/62	11/65	12/51
RAINFALL (Inches) Ø	1.92	.96	5.01	3.90	10.79
Percent of Annual	19%	9%	46%	26%	100%
Greatest Monthly	2.43	3.00	7.42	5.76	7.42
Month and Year	12/65	3/58	6/66	9/58	6/66
Greatest 24-Hour	1.02	1.46	4.25	2.96	4.25
Dates	12/14-15/67	3/5-6/58	8/23-24/59	9/11-12/64	1959
SNOWFALL (Inches)	5.3	.4	0.0	0.8	6.5
Greatest Monthly	14.9	3.5	0.0	10.6	14.9
Month and Year	12/67	3/58	- - -	11/76	1967
CLOUDINESS (%)	38	34	41	29	36
NUMBER OF DAYS WITH:					
Measurable Rainfall	10	9	19	10	48
Thunderstorms	1	5	30	8	44
Visibility $\leq$ 6 Miles	10	11	9	6	36
⊕ 0.01" or more					
STATION PRESSURE					
Average (Inches of Hg)	25.756	25.670	25.731	25.763	25.730

WINTER = Months of December, January, February.
SPRING = March, April, May. SUMMER = June, July, August.
FALL = September, October, November.

** With Prevailing Wind Directions. To convert knots to miles per hour, multiply knots by 1.15155.

Ø "Rainfall" includes water content of snowfall.

TABLE V. "A" STATION CLIMATOGRAPHY--SEASONAL VALUES, 1950-1977

TABLE VI.

MONTHLY AND ANNUAL TEMPERATURE MEANS AND EXTREMES (°FAHRENHEIT) AT SEVEN WSMR SITES

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
STALLION SITE			Elevation 4,940 FT MSL						Period of Record 1962-1973				
Mean Max	51	56	63	72	82	90	92	89	82	74	61	51	72
Mean Min	21	26	31	39	48	57	64	61	50	43	32	23	41
Abs Max	72	77	85	93	97	101	104	101	95	90	79	71	104
Abs Min	-12	2	6	17	30	40	54	47	35	20	14	2	-12
WSD* SITE			Elevation 3,989 FT MSL						Period of Record 1960-1973				
Mean Max	57	61	69	78	87	94	95	92	87	78	66	57	77
Mean Min	25	29	36	46	53	62	67	64	58	45	33	27	45
Abs Max	78	81	89	97	100	108	108	104	99	94	83	75	108
Abs Min	-14	5	6	19	26	41	57	51	37	22	12	5	-14
JALLEN SITE			Elevation 4,051 FT MSL						Period of Record 1963-1973				
Mean Max	55	59	67	76	86	92	95	91	85	77	64	56	75
Mean Min	25	29	35	44	52	61	67	65	57	46	34	27	45
Abs Max	76	81	89	98	98	108	106	106	98	92	84	76	108
Abs Min	-2	5	7	22	30	43	58	50	37	28	16	7	-2
APACHE SITE			Elevation 3,956 FT MSL						Period of Record 1963-1973				
Mean Max	51	60	68	77	86	92	95	92	86	79	65	56	76
Mean Min	24	27	35	44	52	61	66	63	57	44	33	26	44
Abs Max	78	80	89	97	100	108	107	103	99	93	82	75	108
Abs Min	-2	7	7	20	28	42	59	53	37	21	13	2	-2
"A" SITE			Elevation 4,238 FT MSL						Period of Record 1950-1973				
Mean Max	56	60	66	75	84	93	93	91	86	76	64	56	75
Mean Min	34	38	43	52	60	69	70	69	63	53	41	35	52
Abs Max	76	81	86	94	103	106	107	103	98	92	84	77	107
Abs Min	-6	8	16	29	38	50	59	55	46	33	22	8	-6
HMN* SITE [14]			Elevation 4,090 FT MSL						Period of Record 1942-1973				
Mean Max	55	60	66	76	85	94	94	93	87	77	64	56	75
Mean Min	27	31	37	45	54	63	68	66	59	48	34	28	47
Abs Max	79	80	87	96	103	107	107	106	103	93	81	75	107
Abs Min	-11	0	9	22	27	42	54	53	38	24	12	2	-11
SMR* SITE			Elevation 3,999 FT MSL						Period of Record 1963-1973				
Mean Max	56	60	68	77	86	93	95	91	86	77	65	56	76
Mean Min	27	31	39	48	56	64	68	65	60	47	37	29	48
Abs Max	78	83	87	96	100	106	108	103	98	93	82	74	108
Abs Min	4	7	9	22	32	42	59	57	42	23	16	6	4

*White Sands Desert
*Holloman
*Small Missile Range

TABLE VII.

MONTHLY AND ANNUAL MEAN PRECIPITATION (INCHES) AT SEVEN WSMR SITES

Site	Stallion	White Sands Desert	Jallen	"A"	Holloman* [14]	Small Missile Range	Apache
Elevation	4,940	3,989	4,051	4,238	4,070	3,999	3,956
Period of Record	1963-73	1963-73	1966-73	1950-73	1942-73	1964-73	1964-73
Jan	0.12	0.29	0.26	0.48	0.41	0.29	0.29
Feb	0.19	0.40	0.34	0.57	0.40	0.39	0.18
Mar	0.29	0.25	0.14	0.52	0.53	0.26	0.17
Apr	0.10	0.14	0.07	0.22	0.12	0.13	0.12
May	0.30	0.15	0.37	0.23	0.30	0.16	0.15
Jun	0.97	1.39	0.77	0.89	0.98	1.04	0.96
Jul	1.71	1.94	1.82	2.29	1.86	1.89	1.35
Aug	2.13	2.06	1.50	1.86	1.95	2.48	2.13
Sep	1.27	1.39	1.07	1.29	1.32	1.15	1.21
Oct	0.96	0.75	0.98	1.06	1.04	0.77	0.63
Nov	0.25	0.37	0.44	0.42	0.34	0.35	0.35
Dec	0.52	0.47	0.55	0.76	0.62	0.64	0.58
Annual	8.80	10.20	8.27	10.59	8.76	9.55	7.87

***Precipitation records from Holloman Air Force Base were used for the period 1942-64; records from Holloman Rawinsonde Site were used for the years 1965-73.**

YEAR	ANNUAL MEAN TEMP F°	MEAN MAX TEMP F°	HIGHEST MAX TEMP F°	MEAN MIN TEMP F°	LOWEST MIN TEMP F°	GROWING SEASON IN DAYS	AVERAGE STATION PRESSURE IN INCHES	HIGHEST PRESSURE IN INCHES	LOWEST PRESSURE IN INCHES
1950	65.8	78.0	103	53.6	19	268			
1951	64.8	76.5	106	53.0	8	234			
1952	63.7	74.6	100	52.7	23	241			
1953	64.3	75.4	102	53.2	8	260			
1954	65.5	76.5	102	54.4	19	273			
1955	63.1	73.9	101	52.3	21	226			
1956	64.4	75.8	101	53.0	13	248			
1957	64.5	74.4	104	54.5	25	241			
1958	63.4	73.8	104	53.0	21	250			
1959	63.9	75.0	99	52.8	25	239			
1960	63.3	74.2	106	52.3	14	247			
1961	63.6	74.9	102	52.3	26	240	25.708	26.160	25.290
1962	64.0	75.5	100	52.2	-6	270	25.738	26.240	25.285
1963	64.2	76.1	105	52.3	8	266	25.739	26.225	25.330
1964	62.6	74.2	103	50.9	13	256	25.711	26.165	25.190
1965	63.7	75.4	100	51.9	16	254	25.724	26.130	25.210
1966	62.7	74.6	102	50.8	13	267	25.736	26.090	25.290
1967	63.3	75.1	100	51.6	14	241	25.746	26.285	25.240
1968	62.4	74.0	105	50.8	18	249	25.743	26.220	25.250
1969	64.1	75.8	103	52.4	22	241	25.704	26.280	25.235
1970	63.2	74.9	103	51.3	16	232	25.736	26.190	25.315
1971	65.5	74.9	100	52.1	9	259	25.707	26.190	25.160
1972	64.4	75.5	107	52.0	15	236	25.7194	26.240	25.295
1973	62.3	74.5	100	49.8	17	232	25.7322	26.190	25.305
1974	63.4	75.2	103	51.8	15	272	25.7597	26.185	25.330
1975	61.9	74.6	100	50.0	20	228	25.7568	26.240	25.021
1976	61.6	74.0	101	50.0	5	252	25.7618	26.155	25.420

TABLE VIII. YEARLY VALUES "A" STATION

NUMBER OF DEGREE DAYS BASE 65°F	NUMBER OF PRECIP DAYS TRACE OR MORE	ANNUAL RAINFALL INCHES	ANNUAL SNOWFALL INCHES	MAXIMUM WIND GUSTS IN KNOTS	AVERAGE YEARLY WIND SPEED KNOTS	AVERAGE 24-HOUR CLOUD COVER TENTHS	NUMBER OF DAYS WITH THUNDERSTORMS	NUMBER OF DAYS VISBY LESS THAN 6 MILES
1861	80	6.41	+	35	6.4		25	40
2584	88	7.08	8.8	82	7.6		31	44
2643	100	9.32	9.3	56	6.5		49	45
2457	63	5.30	1.8	68	5.8		15	27
2182	79	5.91	0.5	65	6.0		43	69
2561	71	9.27	0.9	66	5.9		31	62
2619	36	3.92	1.2	64	6.4		19	30
2320	70	10.37	1.8	66	5.9		24	30
2785	101	20.02	9.3	66	5.2		37	45
2492	68	11.45	3.7	70	5.2		38	29
2784	67	11.25	18.5	68	6.2	4	31	33
2573	91	12.62	6.2	74	6.4	4	37	46
2440	103	14.07	4.9	62	5.4	4	44	27
2489	99	7.65	6.0	61	5.5	4	49	29
2972	70	9.22	5.2	67	6.4	3	38	30
2375	103	12.40	0.5	63	6.0	4	52	25
2704	102	16.63	2.9	61	5.4	4	59	30
2429	106	10.12	15.4	73	7.2	4	57	37
2718	105	12.99	16.4	67	6.3	4	41	45
2522	90	13.53	6.3	63	6.2	4	46	23
2613	58	8.41	2.4	61	6.5	4	37	16
2503	85	8.75	7.6	71	6.7	4	39	27
2369	108	16.19	11.6	79	6.1	4	65	30
2812	88	11.38	11.6	78	6.4	3	38	20
2499	106	15.76	9.0	71	6.2	4	57	12
2785	90	9.12	5.9	50	6.6	3	38	11
2858	102	11.44	15.9	65	6.0	4	48	27

TABLE VIII. YEARLY VALUES "A" STATION (CONT)